

Pump unit

P 203



Description

The P 203 lubrication pump is versatile, compact and economical and can supply up to 150 lubrication points, depending on the line length. It consists of a housing with integrated motor, reservoir with stirring paddle, pump element with pressure-relief valve, filling nipple and electrical connection parts. This powerful pump can drive up to three pump elements and can be equipped with a low-level control (with or without control board).

Features and benefits

- Optional control printed circuit boards with different operating settings
- Range of reservoir types offered
- For DC or AC applications
- Variety of pumping elements for different output available

Applications

- Mobile applications
- Wheel loaders
- Excavators
- Small- and medium-sized machinery
- General industries
- Combines, balers, forage harvesters



Technical data

Function principle	electrically operated piston pump
Operating temperature	
V DC:	-40 to +70 °C; -40 to +158 °F
V AC:	-25 to +70 °C; -13 to +158 °F
Operating pressure	350 bar; 5 075 psi
Lubricant	grease: up to NLGI 2 oil: viscosity 40–1 500 mm ² /s
Outlets	up to 3
Metering quantity	depending on pump element: 0,7–4,0 cm ³ /min per outlet 0,042–0,244 in ³ /min per outlet
Reservoir	2; 4; 8; 11 and 15 l 0,53, 1,05, 2,11; 2,09 and 3,96 gal
Connection main line	G 1/4
Operating voltage	12/24 V DC, 110–260 V AC; 50/60 Hz
Dimensions	min. 211 × 224 × 287 mm max. 211 × 250 × 774 mm min. 8.31 × 8.82 × 11.29 in max. 8.31 × 9.84 × 30.47 in
Protection class	IP6K9K
Mounting position	upright, with follower plate any



NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions are available on SKF.com/lubrication:

12401 EN

Accessories

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Pump elements¹⁾

Order number	Description	Material	Piston	Nominal output ⁶⁾	
			Ø mm	cm ³ /min	in ³ /min
600-78018-1	pump element L5 ²⁾	steel, gasnitro-carburized	5	0,5	0.03
600-26875-2	pump element K5	steel, gasnitro-carburized	5	1,8	0.11
600-26876-2	pump element K6	steel, gasnitro-carburized	6	2,8	0.17
600-26877-2	pump element K7	steel, gasnitro-carburized	7	4	0.24
655-28716-1	pump element KR	steel, gasnitro-carburized	7	0,7-3,3	0.04-0.02
600-28750-1 ³⁾	pump element C7	steel, gasnitro-carburized	7	4	0.24
600-29303-1	pump element K5 DN	steel, nickel-plated ⁵⁾	5	1,8	0.11
600-29304-1	pump element K6 DN	steel, nickel-plated ⁵⁾	6	2,8	0.17
600-29305-1	pump element K7 DN	steel, nickel-plated ⁵⁾	7	4	0.24
600-29185-1 ⁴⁾	pump element B7 DN	steel, nickel-plated ⁵⁾	7	1,8	0.11

1) Male thread M 22 × 1,5; female thread G 1/4

2) L5 only permitted for application of NLGI 00 lubrication grease

3) Pump element for supplying of chisel paste

4) With bypass check valve

5) For application in beverage industry

6) The stated nominal outputs per minute and pump element refer to NLGI 2 lubrication greases at an ambient temperature of + 20 °C [68 °F] and a pressure of 100 bar [1450 psi] at the outlet of the pump element. Deviating operating conditions or deviating pump configuration result in a changed motor speed of 20 rpm and thus in a change of the output per time unit.

Return-line connector with filler fitting, screw type

Order number	Description	Filling nipple	Thread	Tube	Reservoir
				Ø mm	
504-30698-1	return-line connector	straight	R1/4	6	2 l
504-36071-5	return-line connector	straight, with adapter	R1/4	6	2 l flat-type, 4 and 8 l
504-36071-6	return-line connector-line	90°	R1/4	6	2 l flat-type, 4 and 8 l
304-16543-1	adapter		M 22 × 1,5 × G 1/4		

Reservoir conversion sets

Order number	Designation
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Conversion set from 2 to 4 l reservoir:

544-32787-1	2XN to 4XN
544-32022-1	2XN to 4XNBO

Conversion set from 2 to 8 l reservoir:

544-32788-1	2XN to 8XN
544-32023-1	2XN to 8XNBO

Quick filling connector

Order number	Description	Connection	Filter
544-36961-1	filler fitting with protective cap	G 1/4	-
504-32125-1	coupling plug with protective cap	G 1/4	-
233-10765-3	protective cap; for replacement	G 1/4	-
540-36753-5	filler fitting assembly	M22 × 1,5	•
540-31800-1	filler fitting	M22 × 1,5	•
504-36071-7	filler fitting	M22 × 1,5	-

Fuse holder with fuse

Order number	Description	Current load
237-13321-8	fuse holder	5 A
237-13426-1	fuse holder	8 A

Bracket for fixing pump and main metering device

Order number	Description
307-19644-1	bracket P203

Accessories

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Pressure relief valves

Order number	Designation	Description	Relief pressure		Connection pressure line
			bar	psi	
624-28891-1	SVTS-200-1/4-D6	pressure relief valve (PRV)	200	2 900	screw type fitting D6
624-28894-1	SVTS-350-1/4-D6	PRV with emergency lubrication fitting, left-hand	350	5 075	screw type fitting D6
624-28896-1	SVTS-350-1/4-D6+NIPPOOL	PRV with emergency lubrication fitting, right-hand	350	5 075	screw type fitting D6
624-28897-1	SVTS-350-1/4-D6+NIPPOOL	PRV	350	5 075	screw type fitting D6
624-28895-1	SVTS-350-1/4-D8	PRV	350	5 075	screw type fitting D8
624-28861-1	SVTSV-200-R1/4-6	PRV	200	2 900	push-in type D6
624-28858-1	SVTSV-350-R1/4-6+NIPPOOL	PRV with emergency lubrication fitting, right-hand	350	5 075	push-in type D6
624-28860-1	SVTSV-350-R1/4-6	PRV	350	5 075	push-in type D6
624-28867-1	SVTSV-350-R1/4-6+NIPPOOL	PRV with emergency lubrication fitting, left-hand	350	5 075	push-in type D6
624-28859-1	SVTSV-270-R1/4-1/8NPTF+NIPPOOL	PRV with emergency lubrication fitting, right-hand	270	3 915	thread 1/8 NPT female
226-14105-5	S2520-1/4-1/4-25 nipple	adapter for connection of 2 l flat-type or 4 and 8 l reservoir			
624-29087-1	SVTSV-200-R1/4-6	PRV kit with grease return to the reservoir	200	2 900	push-in type D6
624-28931-1	SVTSV-350-R1/4-6	PRV kit with grease return to the reservoir	350	5 075	push-in type D6
524-32231-1	redesign-kit: grease return fitting for SVTSV+SVTE	grease return fitting for existing pressure relief valve	–	–	–
624-29426-1	SVKSV-350-1/4-D6+pressure gauge	pressure gauge 0-400 bar with PRV SVKSV-350-1/4-D6	350	5 075	–

Valve insert for pressure relief valves as replacement

Order number	Description	Relief pressure	
		bar	psi
235-14343-3	valve insert	350	5 075
235-14343-2	valve insert	270	3 915
235-14343-7	valve insert	250	3 625
235-14343-1	valve insert	200	2 900
235-14343-5	valve insert	120	1 740
235-14343-4	valve insert	80	1 160

Push-button illuminated

Order number	Description	Voltage	Light
664-85388-8	round	12/24 VDC	green
664-85388-9	round	12/24 VDC	red
664-85421-9	round	12/24 VDC	yellow
236-10280-6	rectangular	24 VDC	green

Connection socket and cable ¹⁾

Order number	Description	Cable		Protection class
		m	ft	
544-32850-1	connection socket with gasket and screw, black	–	–	IP65
544-33843-1	connection socket with gasket and screw, grey	–	–	IP65
664-36862-8	connection cable with connection socket, black	6	20	IP67
664-36078-7	connection cable with connection socket, black	10	30	IP67
664-36078-9	connection cable with connection socket, grey	10	30	IP67
664-36862-2	connection cable ADR with connection socket, grey	10	30	IP65
664-36862-1	connection cable ADR with connection socket, black	10	30	IP65
664-34167-2	connection cable with bayonet socket (7/5 pole)	10	30	IP 6K9K
664-34428-3	connection cable with bayonet socket (7/7 pole)	10	30	IP 6K9K
664-34167-6	connection cable with bayonet socket (4/3 pole)	10	30	IP 6K9K
664-34167-9	connection cable with bayonet socket (4/4 pole)	10	30	IP 6K9K

¹⁾ The type of connection sockets and cable depend on the equipment of the pump. Please refer to the assembly instruction of the respective pump.